

Complete Listing of the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (currently amended) A broadhead arrowhead, comprising:

a ferrule;

at least one blade assembly coupled to and extending outwardly from said ferrule;

said blade assembly having a first substantially planar portion disposed in a plane at least substantially parallel to a longitudinal axis of said ferrule and having at least one cutout section therein to permit air to pass therethrough,

and a second portion disposed at an angle to the plane of said first planar portion; and

a generally continuously curved region disposed between and connecting said first and second portions, wherein said blade assembly has an airfoil-type shape that produces a rotational torque about the longitudinal axis of said ferrule.

2. (original) An arrowhead according to claim 1, further comprising a plurality of said blade assemblies disposed substantially symmetrically around the longitudinal axis of said ferrule.

3. (original) An arrowhead according to claim 2, further comprising at least three blade assemblies disposed substantially symmetrically around the longitudinal axis of said ferrule spaced at angles of approximately 120° from each other.

4. (original) An arrowhead according to claim 2, further comprising means for mounting said arrowhead to an arrow shaft.

5. (original) An arrowhead according to claim 4, wherein said arrowhead mounting means comprises a stub member extending from one end of said ferrule substantially coaxial with the longitudinal axis of said ferrule.

6. (original) An arrowhead according to claim 5, wherein said stub member is threaded to mate with matching threads on an arrow shaft.

7. (original) An arrowhead according to claim 3, wherein one end portion of said ferrule is tapered substantially to a point.

8. (original) An arrowhead according to claim 2, wherein said second portion has a length of between about 20% and 50% of the overall length of said blade assembly.

9. (original) An arrowhead according to claim 2, wherein said continuously curved region has a radius of curvature of between about 0.2" and 0.5".

10. (original) An arrowhead according to claim 2, wherein said second portion has a trailing edge region disposed at an angle to said ferrule.

11. (original) An arrowhead according to claim 10, wherein said trailing edge region is disposed at an angle to said ferrule in the range of about 5 degrees and about 45 degrees.

12. (original) An arrowhead according to claim 11, wherein said trailing edge region is disposed at an angle to said ferrule in the range of about 5 degrees and about 35 degrees.

13. (original) A broadhead arrowhead comprising:

a ferrule; and

a blade assembly coupled to and extending outwardly from said ferrule in two directions diametrically opposite each other about the longitudinal axis of said ferrule, said blade assembly having an air-foil type shape comprising:

a first substantially planar blade portion disposed in a plane at least substantially parallel to the longitudinal axis of said ferrule and

two second portions, wherein said second portions are each disposed at an angle to the plane of said first planar portion and said second portions are also disposed at an angle to the longitudinal axis of said ferrule;

wherein said second portions are both generally continuously curved and are both angled relative to said first planar portion in the same rotational direction; and

wherein said first portion of said blade assembly is coupled to said ferrule.

14. (original) An arrowhead according to claim 13, comprising means for mounting said arrowhead to an arrow shaft.

15. (original) An arrowhead according to claim 14, wherein said arrowhead mounting means comprises a stub member extending from one end of said ferrule substantially coaxial with the longitudinal axis of said ferrule.

16. (original) An arrowhead according to claim 13, wherein one end portion of said said first blade portion is tapered substantially to a point.

17. (original) An arrowhead according to claim 13, wherein said second portion is disposed at an angle of between about 5° and about 25° relative to the plane of said first substantially planar portion.

18. (original) An arrowhead according to claim 13, wherein said second portion has a length of between about 20% and about 50% of the overall length of said blade assembly.

19. (original) An arrowhead according to claim 13, wherein said second blade portion has a radius of curvature between about 0.2" and 0.5".

20. (original) An arrowhead according to claim 13, wherein said second portion has a trailing edge region disposed at an angle to said ferrule.

21. (original) An arrowhead according to claim 20, wherein said trailing edge region is disposed at an angle to said ferrule in the range of about 5 degrees and about 45 degrees.

22. (original) An arrowhead according to claim 21, wherein said trailing edge region is disposed at an angle to said ferrule in the range of about 5 degrees and about 35 degrees.

23. (original) An arrowhead according to claim 13, further comprising at least one bleeder blade which includes a second bleeder blade portion disposed at an angle relative to the major plane of said first blade portion.

24. (original) An arrowhead according to claim 23, wherein said second bleeder blade portion is disposed at an angle to said ferrule in the range of about 30 and about 70 degrees.

25. (original) An arrowhead according to claim 24, wherein said second bleeder blade portion is disposed at an angle to said ferrule in the range of about 45 and about 60 degrees.

26. (new) An arrowhead according to claim 1, wherein said first substantially planar blade portion has a plurality of cutout sections therein to permit air to pass therethrough.

27. (new) An arrowhead according to claim 13, wherein said first substantially planar blade portion has at least one cutout section therein to permit air to pass therethrough.

28. (new) An arrowhead according to claim 27, wherein said first substantially planar blade portion has a plurality of cutout sections therein to permit air to pass therethrough.